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DATE MAILED: 07/12/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/528,031 03/17/2000		Andrew Shyjan	MNI-056CPCN	3941
959	7590 07/12/2004		EXAMINER	
LAHIVE & COCKFIELD, LLP. 28 STATE STREET			HUFF, SHEELA JITENDRA	
BOSTON, M			ART UNIT	PAPER NUMBER
			1642	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No	Applicant(s)			
Office Action Summary							
		09/528,0		SHYJAN, ANDREW			
	Office Action Summary	Examine	ır	Art Unit			
	The MAII INC DATE of this	Sheela J		1642			
Period fo	The MAILING DATE of this communi or Reply	cation appears on tr	e cover sneet with the	correspondence address			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNION IN IT IS COMMUNION IN IT IN IT IS COMMUNION IN IT IN IT IS COMMUNION IN IT	CATION. of 37 CFR 1.136(a). In no e unication.)) days, a reply within the sta tutory period will apply and will. by statute. cause the ap	vent, however, may a reply be to atutory minimum of thirty (30) da will expire SIX (6) MONTHS from plication to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. JED (35 U.S.C. 8 133)			
Status							
1)[🛛	Responsive to communication(s) filed	d on <i>17 June 2004</i> .					
	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	 4) Claim(s) 106-108,115,117,118,120-133 and 135-143 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 106-108,115,117,118,120-133 and 135-143 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicati	on Papers						
9)🖂	The specification is objected to by the	Examiner.					
10)[10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority of the priority of the copies of the priority of the copies of the copies of the certified copies of the certified copies of the certified copies of the the attached detailed Office action	locuments have bee locuments have bee f the priority documa al Bureau (PCT Ru	en received. en received in Applicat ents have been receiv le 17.2(a)).	tion No red in this National Stage			
Attachment	(s)						
	e of References Cited (PTO-892)		4) Interview Summary				
3) 🔀 Inform	e of Draftsperson's Patent Drawing Review (PT pation Disclosure Statement(s) (PTO-1449 or P No(s)/Mail Date	O-948) TO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	Patent Application (PTO-152)			

Art Unit: 1642

DETAILED ACTION

The amendment filed 6/17/04 has been entered.

Claims 106-108, 115, 117-118, 120-133 and 135-143 are pending.

The objection to the specification is withdrawn in view of applicant's amendment.

The objection to claims 126 is withdrawn in view of applicant's amendment.

All rejections under 35 U.S.C. 112, second paragraph, are withdrawn in view of applicant's amendments/arguments.

The rejection of claim 115 under 35 U.S.C. 112, first paragraph, is withdraw in view of applicant's arguments.

All art rejections are withdrawn in view of applicant's amendment.

Information Disclosure Statement

The Information Disclosure Statement filed 5/22/02 is acknowledged. A signed copy is attached hereto.

Claim Rejections - 35 USC 112

Claims 107-108, 115, 117-118, 120-124, 129, 131-133 and 136 are/remain rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This is a written description rejection, rather than

Art Unit: 1642

an enablement rejection under 35 U.S.C. 112, first paragraph. The reasons for this rejection are of record in paper no. 12, mailed 1/2/02.

Applicant argues that the claims are methods claims and are not directed to a genus. The claims are directed to a method of using a genus of polypeptides.

Applicant argues that the MRP-beta variants or homologues are described in the specification and that methods for testing for biological activity are disclosed in the specification. The claims are not solely limited to the polypeptides that have the MRP-beta activity. If applicant were to insert the functional activity into the claim, then this rejection would be withdrawn.

Claims 106-108 and 115, 117-118, 120-133 and 135-143 remain rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for identifying drugs which inhibit MRP-β by testing for MRP-β expression, for cell survival, or for sequestration of a cytotoxin, does not reasonably provide enablement for identifying stimulatory modulators of MRP-β, does not reasonably provide enablement for the scope of the modulators of claim 132, and does not reasonably provide enablement for identifying modulators by testing for sequestration of substrates other than cytotoxins. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims. The reasons for this rejection are of record in paper no. 12, mailed 1/2/02.

Art Unit: 1642

Applicant argues that testing for stimulatory molecules or sequestration of substrates would be the same as testing for inhibitory molecules and that the amount of experimentation to test the scope of the compounds is not undue. The prior art only discloses the identification of inhibitory molecules, Thereby, giving one skilled in the art quidance as to what types of molecules (referring to types of structure) are needed for proper inhibition. Since neither the prior art nor applicant's specification discloses any inhibitory or sequestration molecules, one skilled in the art would be faced the analysis of the millions and millions of different compounds known to man. This is clearly undue. With respect to the scope of modulators, applicant is still claiming broadly because the claims are directed to the screening of millions and millions of different compounds and applicant has not demonstrated a the screening of a representative number of compounds from the broad genus. The state of the art only screens a few compounds and these compounds certainly do not read on "natural metabolite", "synthetic chemical", etc. Screening this multitude of compounds for inhibitory, stimulatory or sequestration ability would clearly be undue.

New Grounds of Rejection

Specification

The amendment filed 5/13/02 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material

Art Unit: 1642

which is not supported by the original disclosure is as follows: The newly added terminology "as determined by the ALIGN alogortithm.... Gap penalty = 4)" at page 35 is new matter..

Applicant is required to cancel the new matter in the reply to this Office Action.

The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. The hyperlink is found on page 30 of the specification. See MPEP § 608.01.

Claim Rejections - 35 USC § 112

Claims 107-108, 115, 117-118, 120-124, 129-133 are rejected under 35
U.S.C. 112, first paragraph, as failing to comply with the written description requirement.
The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. THIS IS A NEW MATTER REJECTION.

The newly added terminology "as determined by the ALIGN alogortithm.... Gap penalty = 4)" in claims 107 and 108 is new matter. This limitation was not supported by the specification as originally filed.

Art Unit: 1642

Claims 108 and 126 and 132 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- a. In claim 108, at the end of the claim the "\" is unclear.
- b. in claim 126, last line "is" should be --in--.
- c. In claim 132, there should be a period after lysate not a comma.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheela J Huff whose telephone number is 571-272-

Art Unit: 1642

0834. The examiner can normally be reached on Tuesday 5:30am-11:30am and Fridays 6:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sheela J Huff
Primary Examiner
Art Unit 1642

sjh